

HVAC GENERAL NOTES

1. ALL WORK SHALL COMPLY WITH APPLICABLE NATIONAL, STATE AND LOCAL CODES. THIS INCLUDES THE 2007 FLORIDA BUILDING CODE AND THE 2007 FLORIDA MECHANICAL CODE, WITH 2009 AMENDMENTS, THE APPLICABLE NFPA CODES AND THE FLORIDA ENERGY CODE.
2. ALL ELECTRICAL EQUIPMENT SHALL BE UL CLASSIFIED OR LISTED.
3. DEFINITIONS: "FURNISH" SHALL MEAN TO PURCHASE AND LOCATE AN ITEM ON THE JOBSITE. "INSTALL" SHALL MEAN TO PHYSICALLY INSTALL AN ITEM AND CONNECT IT TO ALL REQUIRED SERVICES TO MAKE THE ITEM FULLY FUNCTIONAL. "PROVIDE" SHALL MEAN TO BOTH FURNISH AND INSTALL THE ITEM.
4. TEST AND BALANCE SHALL BE PERFORMED BY AN INDEPENDENT FIRM SPECIALIZING IN THIS TYPE OF WORK AND SHALL BE PRESENTED ON APPROVED FORMS USED BY ABC OR NEBB. THE MECHANICAL CONTRACTOR SHALL HAVE ALL SYSTEMS FULLY INSTALLED AND OPERATIONAL WITH CLEAN FILTERS INSTALLED PRIOR TO TEST AND BALANCE.

AIR CONDITIONING EQUIPMENT

1. THE AIR CONDITIONING EQUIPMENT SHALL BE STRAIGHT COOL, WITH ELECTRIC HEAT.
2. ALL EQUIPMENT SHALL MEET THE MINIMUM EER REQUIREMENTS OF THE FLORIDA ENERGY CODE.
3. CARRIER IS THE BASIS OF DESIGN WITH TRANE AND YORK AS APPROVED ALTERNATES. IF AN ALTERNATE IS SUBMITTED, THE CONTRACTOR SHALL MAKE ALL NECESSARY CHANGES TO THE ELECTRICAL, STRUCTURAL AND DUCTWORK TO ACCOMMODATE THE SUBSTITUTION.
4. SUBMITTALS SHALL BE REVIEWED BY THE ELECTRICAL SUBCONTRACTOR FOR IMPACT TO THE ELECTRICAL SYSTEMS, PRIOR TO ORDERING THE EQUIPMENT.
5. ALL AIR CONDITIONING EQUIPMENT SHALL INCLUDE A MINIMUM 1 YEAR UNIT WARRANTY AND AN EXTENDED 4 YEAR COMPRESSOR AND HEAT EXCHANGER WARRANTY.
6. PROVIDE CONDENSATE PIPING AS SHOWN ON THE PLAN AND DETAIL. THE CONTRACTOR SHALL EXTEND THE CONDENSATE PIPING TO THE ROOF DRAINS TO SPILL TO SITE STORM RETENTION.
7. THE AIR CONDITIONING UNITS SHALL BE OPERATED DURING CONSTRUCTION WITH THROW AWAY FILTERS. FILTERS SHALL BE CHANGED DURING CONSTRUCTION IF THEY BECOME RESTRICTIVE OF AIR FLOW FOR NORMAL OPERATION. PROVIDE NEW FILTERS JUST PRIOR TO TEST AND BALANCE.
8. UNITS SHALL BE CLEANED AND ALL SCRATCHES PAINTED OVER WITH FACTORY PAINT TO MATCH UNIT. ALL CONDENSER COILS SHALL BE COMBED OUT AND ALL PANELS AND SCREWS SHALL BE INSTALLED AT THE COMPLETION OF THE PROJECT.

DUCTWORK

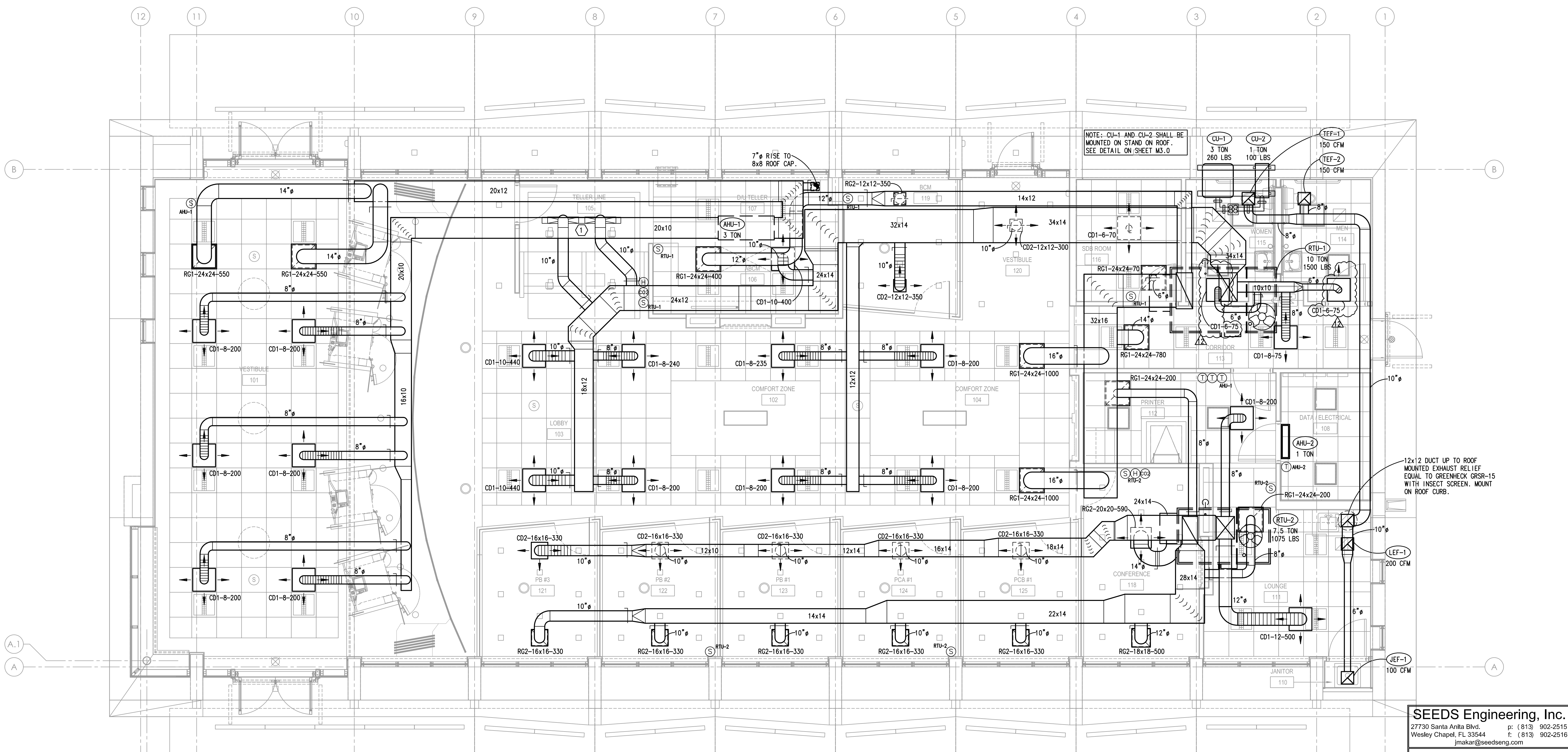
1. SUPPLY AND RETURN DUCT SHALL BE EXTERNALLY INSULATED SHEET METAL, INSTALLED IN ACCORDANCE WITH SMACNA. SEE DETAIL FOR INSTALLATION AND HANGING INSTRUCTIONS.
2. EXHAUST DUCT WORK SHALL BE GALVANIZED SHEET METAL WITH ALL JOINTS SEALED WITH MASTIC. ROUND DUCT WORK SHALL BE "THERMOFIM" OR SINGLE WALL SHEET METAL. DUCTS DO NOT NEED TO BE INSULATED UNLESS REQUIRED BY LOCAL JURISDICTION. ALL DUCT SHALL BE CONSTRUCTED AND INSTALLED PER SMACNA.
3. ALL DUCT SIZES DEPICTED ARE CLEAR INSIDE DIMENSIONS.
4. SUPPLY AIR DUCT SHALL BE SIZED AT 0.10"/100 FT. EQUAL FRICTION AND RETURN DUCT SHALL BE SIZED AT 0.06"/100 FT. EQUAL FRICTION.
5. HOLD THE BOTTOM OF THE SUPPLY AIR DUCT A MAXIMUM OF 24" ABOVE LAY-IN CEILINGS TO ALLOW FOR ACCESS TO BALANCING DEVICES.
6. PROVIDE A FLEXIBLE CONNECTION FROM EACH RTU, AIR HANDLER AND FAN TO THE DUCT SYSTEM.
7. FLEXIBLE RUNOUTS TO THE DIFFUSERS ARE LIMITED TO A MAXIMUM OF 6 FEET.
8. PROVIDE ACCESS PANELS IN DUCTS FOR ACCESS TO VOLUME DAMPERS, FIRE DAMPERS, FIRE/SMOKE DAMPERS, DUCT MOUNTED SMOKE DETECTORS AND WHERE REQUIRED TO MAINTAIN EQUIPMENT.
9. ALL FLEXIBLE BRANCH CONNECTIONS SHALL HAVE A MANUAL VOLUME DAMPER INSTALLED AT THE MAIN TRUNK FOR BALANCING PURPOSES.

CONTROLS

1. ALL TEMPERATURE CONTROLS SHALL BE BY MANUFACTURER. PROVIDE CARRIER 7-DAY PROGRAMMABLE THERMOSTATS, WITH KEYPAD LOCKOUT. PROVIDE REMOTE TEMPERATURE AND HUMIDITY SENSORS FOR RTU-1 AND RTU-2. PROVIDE A REMOTE SENSOR FOR AHU-1 LOCATED AS SHOWN. PROVIDE WALL MOUNTED TEMPERATURE SENSOR FOR AHU-2 ON WALL. LOCATE RTU-1 AND RTU-2 THERMOSTATS WITHIN PRINT ROOM, AT 5'0" AFF OR AS DIRECTED BY OWNERS REP.
2. LOW VOLTAGE CONTROL WIRING SHALL BE PROVIDED BY THE MECHANICAL CONTRACTOR. THE ELECTRICAL CONTRACTOR SHALL PROVIDE CONDUIT FOR ALL CONTROL WIRING AS COORDINATED WITH THE MECHANICAL CONTRACTOR.
3. LINE VOLTAGE (110 VOLT OR HIGHER) POWER AND CONDUIT SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR.
4. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL DISCONNECT SWITCHES EXCEPT RTU-1 AND RTU-2. DO NOT MOUNT DISCONNECT SWITCHES OVER NAMEPLATES OR SERVICE PANELS.
5. TEST AND BALANCE SHALL VERIFY THE OPERATION OF ALL CONTROLS AT THE COMPLETION OF THE PROJECT.
6. SMOKE DETECTORS ARE PROVIDED AND INSTALLED BY THE MECHANICAL CONTRACTOR IN RTU-1 AND RTU-2 (NO FIRE ALARM SYSTEM). EACH SMOKE DETECTOR SHALL BE EQUIPPED WITH A REMOTE TEST STATION EQUIPPED WITH A VISUAL AND AUDIBLE ALARM TO BE LOCATED ADJACENT TO THE UNIT THERMOSTAT IN ACCORDANCE WITH NFPA 90.

KEYED NOTES

- 1 (2) 4" ACTIVE SECTIONS EQUAL TO TITUS ML38-TZ. PROVIDE WITH 4 SLOT, 6" WIDE MP-38 PLENUM. PROVIDE WHITE 4'-0" LENGTH OF SLOT DIFFUSER. BALANCE EACH DEVICE TO 250 CFM. LINEAR DIFFUSER MUST BE PAINTED TO MATCH CEILING PRIOR TO INSTALLATION, REFER TO ARCHITECTURAL.



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REV.	BY	DATE & COMMENTS
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